

CLAIMS

1. A method of forming a coating film on a substrate comprising the steps of:

5 (i) coating the substrate with a thermosetting and photocurable coating composition to form a wet coating film,

 (ii) heating the wet coating film to semicure the coating film, and

10 (iii) irradiating the semicured coating film with light to cure the coating film.

2. A method of forming a coating film according to claim 1, wherein the coating composition comprises a
15 thermosetting and photocurable resin component (A), a crosslinking agent (B), a photopolymerization initiator (C), and an organic solvent (D).

3. A method of forming a coating film according to claim 2, wherein the resin component (A) is at least
20 one compound selected from the group consisting of radical-polymerizable unsaturated monomers, resins containing radical-polymerizable unsaturated groups, resins containing radical-polymerizable unsaturated groups
25 and thermosetting functional groups, and resins containing

thermosetting functional groups.

4. A method of forming a coating film according to claim 2, wherein the coating composition comprises, per
5 100 parts by weight of the thermosetting and photocurable resin component (A), about 10 to about 60 parts by weight of the crosslinking agent (B) and about 0.1 to about 10 parts by weight of the photopolymerization initiator (C).

10 5. A method of forming a coating film according to claim 2, wherein the coating composition comprises the organic solvent (D) in such an amount that the coating composition has a solids content of about 20% to about 90% by weight.

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6. A method of forming a coating film according to claim 1, wherein the wet coating film is heated at about 50°C to about 200°C for about 5 to about 30 minutes.

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7. A method of forming a coating film according to claim 1, wherein the semicured coating film is irradiated with ultraviolet light having a wavelength of about 200 to about 450 nm at a dosage of about 100 to about 2,000 mJ/cm².

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8. A method of forming a coating film according to claim 1, further comprising after step (ii), a step of repairing the coating film.

5 9. A method of forming a coating film according to claim 1, wherein the substrate to be coated is a vehicle body.

10 10. A method of forming a coating film according to claim 9, wherein the substrate to be coated is an automobile body.

15 11. A vehicle body on which a coating film is formed by the method of forming a coating film according to claim 1.

20 12. An automobile body on which a coating film is formed by the method of forming a coating film according to claim 1.